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# भारत का राजपत्र

## The Gazette of India

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नई दिल्ली, शनिवार, अप्रैल 25, 1987 (वैशाख 5, 1909)

No. 17]

NEW DELHI, SATURDAY, APRIL 25, 1987 (VAISAKHA 5, 1909)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS  
Calcutta, the 25th April 1987

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## CORRIGENDUM

In the Gazette of India Part III Section-2 dated 31st January, 1987 under the heading "Complete Specification accepted".

In page 86 Column 1 against No. 158831.

For Application No. 17/Bom/1985.

Read Application No. 127/Bom/1985.

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

214, ACHARYA JAGADISH BOSE ROAD  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 17th March 1987

214/Cal/87. Volgo-Uralsky Nauchno-Issledovatel'sky I Proektny Institut Po Dobyche I Pererabotke Serovodorod-Soderzhaschikh Gazov (Volgouralnigaz). Method for biological purification of sewage from diethanolamine.

The 18th March 1987

215/Cal/87. N. V. Philips' Gloeilampenfabriken. Colour display tube.

216/Cal/87. IEL Limited. An improved process for the preparation of fatty alcohols from organic acid esters by catalytic hydrogenation.

217/Cal/87. Merck Patent Gesellschaft Mit Beschränkter Haftung. Nacreous pigments.

218/Cal/87. Ems-Inventa AG. Apparatus for cooling and conditioning melt-spun material. [Addition to number 644/Cal/86].

219/Cal/87. Clarence Sexton Freeman and Katherine Mouton Freeman. Cable maintenance apparatus and method.

The 19th March 1987

220/Cal/87. American Hoechst Corporation. Water-soluble yellow monoazo dyestuff mixtures and their use for dyeing carbonamide and/or hydroxy groups containing materials.

221/Cal/87. Armo Inc. Hot dip aluminum coated chromium alloy steel.

The 20th March 1987

222/Cal/87. Zabrzanskie Gwarectwo Weglowe, Kopalnia Węgla Kamiennego "Zabrze-Bielszowice". Skip hoisting system.

223/Cal/87. Du Pont Canada Inc. Solution Process for the preparation of polymers of alpha-olefins. (Convention date 5th July, 1983) U.K. [Divisional date 18th June, 1984].

224/Cal/87. Degussa Aktiengesellschaft. A detergent bar.

225/Cal/87. Siemens Aktiengesellschaft. Methods of and devices for the adjustment of electrical filters.

226/Cal/87. Sulzer Brothers Limited. A weft yarn store for a loom.

227/Cal/87. Christian A. Wittke. Illuminated characters or graphic symbols for external fixing to vehicles.

## APPLICATION FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH

MUNICIPAL MARKET BUILDING, IIIRD FLOOR  
KAROL BAGH, NEW DELHI-5

The 23rd February 1987

152/Del/87. Vivek Mull & Shree Krishnakeshav Laboratories Ltd., "A pediatric urinary collection bag".

153/Del/87. Colgate-palmolive Company, "Solid antitartar mouth deodorant composition".

154/Del/87. Ashland Oil Inc., "Tin or bismuth complex catalysts and trigger cure of coatings therewith".

155/Del/87. The Halcon SD Group, Inc., "Process for preparing silver catalysts".

The 24th February 1987

156/Del/87. Aktiebolaget Draco, "Device in powder inhalators".

157/Del/87. Felipe Salete, "Process for the obtention of high purity mucilage from plantago psyllium seeds".

158/Del/87. Dyna Products AB, "An arrangement in wind driven reciprocating compressors for compressible media".

159/Del/87. Cimsa Sintra, "Method and device for the transmission of digital data by messages organized in France".

160/Del/87. Telefonaktiebolaget LM Ericsson, "Apparatus in cathode ray tubes for reducing the magnetic field strength in the tube environment".

161/Del/87. Allied Corporation, "Proportioning brake valve with dual area secondary piston".

162/Del/87. Shell Oil Company, "Preparation of olefin polymerization catalyst component".

The 25th February 1987

163/Del/87. Rockwell International Corporation, "Modified fade drive axle housing".

164/Del/87. Imperial Chemical Industries Plc., "Solid explosive composition". (Convention date 14th March, 1986, U. K.).

165/Del/87. GKN Technology Limited, "Leaf springs of composite material". (Convention date 13th March, 1986, U. K.).

166/Del/87. Sylsands Securities (Proprietary) Limited, "Interlocking construction block".

167/Del/87. The Goodyear Tire & Rubber Company, "Reinforced composite structure".

168/Del/87. Bendix Limited, "Reciprocating machine".

169/Del/87. Kollmorgen Technologies Corporation, "Molded metallized plastic articles and processes for making the same".

The 26th February 1987

170/Del/87. Shell Internationale Research Maatschappij B. V., "Process for the carbonylation of olefinically unsaturated compounds with palladium catalyst". (Convention date 28th February, 1986, U. K.).

171/Del/87. PPG Industries, Inc., "Burner design for melting glass batch and the like".

172/Del/87. BICC Public Limited Company, "Optical Cable". (Convention date 28th February, 1986, U. K.).

173/Del/87. Fabcon Incorporated, "Process for flocculating and clarifying a solid-liquid slurry".

[Divisional date 1st October, 1984].

174/Del/87. Vivek Mull and Shree Krishnadeshav Laboratories Ltd., "A device for inspecting the anus".

The 27th February 1987

175/Del/87. Euroceltique S.A., "Contraceptive composition". (Convention date 12th March, 1986 and 26th March, 1986, U. K.).

176/Del/87. Michael Smetacek, "A self-level seeking tamper-proof activating device for activating alarm circuits".

The 2nd March 1987

177/Del/87. Alsthom, "A system for providing assistance in assembly operations with self-checking".

178/Del/87. General Fodos Corporation, "A method of hydrolyzing a coffee extraction residue material to produce mannan olegomers". [Divisional date 25th September, 1984].

179/Del/87. B. M. D. Limited, "Improvements in cutting machines". (Convention date 4th March, 1986, U. K.).

The 3rd March 1987

180/Del/87. UOP Inc., "Olefin hydrogenation method for adsorptive separation process feedstreams".

181/Del/87. Stein Industrie, "A device for fixing a perforated sheet against the perforated tube plate of a heat exchanger".

182/Del/87. The Gillette Company, "Thermophotovoltaic system".

183/Del/87. Andrei Fedoseevich Ivanchenko and others, "Drum switch".

184/Del/87. Westinghouse Brake and Signal Company Limited, "Variable load braking systems". (Convention date 24th April, 1986, U.K.).

185/Del/87. Erno Raumfahrttechnik GmbH, "Assembly of large structures".

The 4th March 1987

186/Del/87. Shell Internationale Research Maatschappij B. V., "Process for the preparation of carbonyl compounds". (Convention date 6th March, 1986, U. K.).

187/Del/87. Colgate-Palmolive Company, "Higher Fatty alcohol sulfate-alpha-higher fatty acid methyl ester detergent laundry bars".

188/Del/87. Colgate-Palmolive Company, "Breakage resistant higher fatty alcohol sulfate detergent laundry bars".

189/Del/87. Colgate-Palmolive Company, "Alpha-sulfo-fatty acid ester and/or amide salt(s) detergent laundry bars and processes for manufacture thereof".

190/Del/87. Colgate-Palmolive Company, "Alpha-sulfo-higher fatty acid-lower alcohol ester and amide-based detergent laundry bars and process for manufacture thereof".

191/Del/87. Colgate-Palmolive Company, "Alkyl ethoxylate sulfate detergent laundry bars and processes for manufacture thereof".

192/Del/87. Colgate-Palmolive Company, "Higher fatty alcohol sulfate-higher fatty alcohol ethoxylate sulfate detergent laundry bars and process for manufacture thereof".

193/Del/87. Bendix Limited, "Gas compressors". (Convention date 14th March, 1986, U. K.).

The 5th March 1987

194/Del/87. Council of Scientific and Industrial Research, "A device for introducing air blast into a cupola".

195/Del/87. Lam Heng Beng, "Improvements in or relating to pile driving". (Convention date 7th March, 1986 and 13th October, 1986, U. K.).

196/Del/87. Allied Corporation, "Fiber reinforced composites and method for their manufacture".

197/Del/87. Ponnt-A. Mousson S.A., "Device for joining pipes comprising a male and a socket".

198/Del/87. Societe Nationale D'Etude Et De Construction De Moteurs D'Aviation "S.N.E.C.M.A", "Process for the preparation of ceramic cores".

The 6th March 1987

199/Del/87. The Babcock & Wilcox Company, "Automatic system for sequential control and fault detection of devices used in batch processes".

200/Del/87. The Babcock & Wilcox Company, "Detector for measuring free oxygen in a combustible atmosphere".

201/Del/87. Werkzeugmaschinenfabrik Oerlikon-Bührle AG, "Arrangement for a power supply unit on a transportable gun".

202/Del/87. Werkzeugmaschinenfabrik Oerlikon-Bührle AG, "Apparatus for conformal transfer of the cradle movement of a firearm to the direction collimator".

203/Del/87. Werkzeugmaschinenfabrik Oerlikon-Bührle AG, "Ammunition-feed on an automatic firearm".

204/Del/87. The General Electric Company, P.L.C., "Ring-ing circuit". (Convention date 12th March, 1986, U. K.).

205/Del/87. Bhushan Lal Mittal, "A mill for crushing of sugarcane".

206/Del/87. Bhushan Lal Mittal, "A mill for crushing of sugarcane".

APPLICATION FOR PATENTS FILING AT FOR  
PATENT OFFICE BRANCH  
61, WALLAJAH ROAD,  
MADRAS-600 002

The 2nd March 1987

140/Mas/87. Caterpillar Inc., Track shoe Deflection Limiter for Endless Track Assemblies. (23rd September 1986, Canada).

141/Mas/87. Caterpillar Inc., "Bulldozer Blade Mounting and Stabilizing Arrangements. (September 23rd, 1986, Canada).

The 3rd March 1987

142/Mas/87. Sambandam Sekaran, A Rack.

143/Mas/87. Sambandam Sekaran, A Bedstead.

144/Mas/87. Yelakanti Mohan Rao, A Teaching Apparatus for Providing Training in Copying Graphic matter.

145/Mas/87. Lucas Industries Public Limited Company, A Wedge and Roller Brake Actuator. (March 5th, 1986, U.K.).

146/Mas/87. CIBA-GEIGY AG, Detection of Fungi.

147/Mas/87. Rank Taylor Hobson Limited, Metrological Apparatus. (March 4th, 1986, U.K.).

148/Mas/87. Rank Taylor Hobson Limited, Workpiece Position Control. (March 4th, 1986, U.K.).

149/Mas/87. Schubert and Salzer Maschinenfabrik Aktiengesellschaft, A method and device for servicing the work stations of spinning or twisting machines, using a number of servicing devices movable along the work stations.

The 4th March 1987

150/Mas/87. Raman Pillai Hari Gopal, "Gasafe" Domestic Gas Cylinder Safety Valve.

151/Mas/87. A. Ahlstrom Corporation, Circulating Fluidized Bed Reactor. (September 9th, 1986, Canada).

152/Mas/87. Haung, Kin-Shen, and Stene H. C. Tseng, Beverage can coiling Device.

153/Mas/87. Fred. Olsen, Floating Platform Structure.

The 5th March 1987

154/Mas/87. Lucas Industries Public Limited Company, "Improvements relating to deceleration controllers". (March 7th, 1986, U.K.).

155/Mas/87. Istvan Zvolek, Graden-Type Shower With Sun-Collector and Combined Tap.

156/Mas/87. Davy McKee (Stockton) Limited, Vessel Support Arrangement. (March 5th, 1986, British).

The 6th March 1987

157/Mas/87. The Dow Chemical Company, Nozzle.

158/Mas/87. The Dow Chemical Company, Nozzle.

#### ALTERATION OF DATE

159280. } Ante dated to 29th May, 1979.  
(76/Del/83).

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classification given below in respect of each specification are according to Indian Classification and International Classification.

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CLASS : 15-C, D & E.

159260

Int. Cl. : F 16 c 33/00,

F 16 c 33/46.

#### CAGE OF PLASTICS MATERIAL FOR A CONICAL ROLLING BEARING.

Applicant : ROULEMENTS NADELLA S.A., OF 16 ROUTE DE FOECY 18101 VIERZON, FRANCE.

Inventor : 1. BERNARD MALLET.

Application No. 185/Cal/83 filed February 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A cage of plastics material for a conical rolling bearing comprising a body of frustoconical shape provided with cavities for receiving rolling elements, said cavities being formed at even distances apart in the lateral surface of said body, wherein each cavity for receiving a rolling element is provided with projecting portions which are for retaining the rolling element in the cavity and extend inwardly of the cavity and are moulded in one piece with the cage.

Compl. Specn. 13 pages.

Drgs 3 sheets.

CLASS : 172-C<sub>8</sub>, 5, 9°

159261

Int. Cl. : D 01 g 7/00,

D 01 g 9/00.

#### SUCTION DUCT FOR TEXTILE MACHINES.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070, INGOLSTADT, WEST GERMANY.

Inventor : 1. GEORG GOLDAMMER.

Application No. 218/Cal/83 filed February 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims

A suction duct for textile machines, particularly for a bale opener, comprising a stationary connecting opening and a mobile connecting opening which is arranged in one longitudinal side of the suction duct and is part of an elongated slot which can be closed by a flexible cover band, one end of which is secured in a stationary manner, characterised in that the other end of the cover band is secured to a winding-on roller mounted on a carriage which can be moved along the suction duct.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 172-D<sub>4</sub>.

159262

CLASS : 172-B.

159264.

Int. Cl. : D 01 h 7/74.

## SEPARATION DEVICE FOR AN OPEN-END SPINNING APPARATUS WITH A HOUSING.

Applicant : SCHUBERT &amp; SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT OF FRIEDRICH-EBERT-STRASSE 84,8070, INGOLSTADT, GERMANY.

Inventors : 1. EBERHARD HOFMANN, 2. GOTTFRIED SCHNEIDER, 3. JOHANN POHN.

Application No. 245/Cal/83 filed February 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims

Separation device for an open-end spinning apparatus with a housing, in the interior of which a separation roller and an insert accommodating the separation roller are arranged, the insert comprising openings which are enclosed on all sides and correspond to housing openings connecting the interior with other parts of the spinning apparatus characterised in that the insert (3) is cup-shaped with a recess (35) in the base (34), which recess (35) opens into a bearing bore (18) supporting the separation roller, a fixing device securing the position of the insert (3) relative to the housing being associated with the insert (3);

Compl. Specn. 34 pages.

Drgs 2 sheets.

CLASS : 70-A + 130-D + 139-C.

159263

Int. Cl. : B 01 k 3/00, C 01 b 7/06 &amp; C 22 b 45/00.

APPARATUS AND METHOD FOR ELECTROLYSIS OF MgCl<sub>2</sub>.

Applicant &amp; Inventor : HIROSHI ISHIZUKA, OF 19-2, EBARA, 6-CHOME, SHINAGAWAKU, TOKYO, JAPAN.

Application No. 279/Cal/83 filed March 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 19 Claims

An apparatus for electrolysis of MgCl<sub>2</sub>, comprising an airtightly sealed metallic shell exhibiting in horizontal cross section a rounded profile which comprises at four portions a curve selected from a quarter-circular arc and a quarter-elliptical arc, a measure for forcibly cooling said shell from outside, a wall structure which consists of an insulative refractory of a decreased thickness and which is provided along said shell, an electrolysis chamber defined by said wall structure and a pair of primary partitions extending in parallel with each other across the wall structure, a separation chamber for stripping magnesium metal from electrolytic bath provided in adjacency with the electrolysis chamber, at least one pair of anode and cathode arranged in the electrolysis chamber, at least one bipolar intermediate electrode arranged between the anode and cathode, and a top cover provided air-tightly over the electrolysis chamber and the separation chamber, thus allowing as a whole an electrolytic operation at a substantially regulated bath temperature with an increased number of electrodes contained.

Compl. Specn. 19 pages.

Drgs. 2 sheets.

Int. Cl. : D 01 d 11/00.

## DEVICE FOR CUTTING A FIBER SLIVER.

Applicant : MASCHINENFABRIK RIETER AG, OF WINTERTHUR, SWITZERLAND.

Inventor : 1. PETER OEHY.

Application No. : 322/Cal/83 filed March 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

Device for cutting a fiber sliver delivered from a fiber sliver channel of a coiler guide wheel in a can filling station with a can removal device, the fiber sliver being cut between the exit of the fiber sliver channel and a shifted filled can, said device being supported on a travelling frame, characterized in that the said device is provided with a sliver separator (23) and means for moving said sliver separator (23) below and across said coiler guide wheel (3), said sliver separator (23) comprising a holder (24) and a sliding separator element (25) fixedly secured thereto, said holder (24) being provided with a socket portion (26), and said means for moving said sliver separator (23) comprising an arm (9) which supports said sliver separator (23) at one end and which is pivotally mounted on said travelling frame (8) at the opposite end, said socket portion (26) together with a pin (27) serving for the pivotal connection of said sliver separator (23) with said arm (9).

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 102-B &amp; 134-B.

159265

Int. Cl. : F 15 b 15/00.

## A HYDRAULIC CONTROL SYSTEM FOR POWER TRANSMISSION.

Applicant : VICKERS, INCORPORATED, OF 1401 CROOKS ROAD TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventors : 1. HENRY DELANO TAYLOR, 2. VINOD KUMAR NANDA.

Application No. 327/Cal/83 filed March 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A hydraulic control system comprising a hydraulic actuator (20, 56, 70) having opposed openings adapted to alternately function as inlets and outlets for moving the element of the actuator in opposite directions,

a pump (22) for supplying fluid for said actuator,

meter-in valve means (27) to which the fluid from the pump is supplied, for selectively metering fluid to one or the other of said openings to control the direction of movement of the actuator (20),

said meter-in valve means (27) being pilot controlled by alternately applying fluid at pilot pressure to opposed ends of said meter-in valve means,

a pair of lines (32, 33) extending from said meter-in valve means to said respective openings of said actuator,

meter-out valve means (34) associated with at least one opening of the actuator (20) for controlling the flow out of said actuator (20),

said meter-out valve means (34) being pilot operated by the pilot pressure applied to said meter-in valve means, the improvement comprising.

means (47) for sensing the output pressure from the meter-in valve means (27) being directed to the actuator when said meter-in valve means is operated on one direction,

said sensing means also providing a pressure in said meter-in valve means (27) opposing the pilot pressure tending to actuate the meter-in valve means in said one direction,

means for controlling an overhauling load when fluid is being directed to one of said openings of actuator,

said controlling means including means operable to retard movement of said actuator (20) and including a line extending from said line (32) supplying fluid to said actuator and the pressure of fluid being supplied by said meter-in valve means (27) to said one opening of said actuator (20) and providing a pressure to said meter-in valve means (27) opposing the pilot pressure tending to actuate the meter-in valve means (27) in a direction to supply fluid to said one end of said actuator (20) such that in an overhauling load mode, the pressure of fluid to said one opening is reduced tending to actuate said means (47) operable to retard movement of the actuator and the pressure of fluid being supplied to said meter-in valve means (27) is reduced permitting the pilot pressure to open the meter-in valve means (27) to a greater degree permitting more fluid to flow to said one opening of said actuator (20) and increasing the pressure of fluid to said controlling means (49).

Compl. Specn. 19 pages.

Drgs. 5 sheets.

CLASS : 69-I.

159266

Int. Cl. : H 01 h 13/00.

#### A VACUUM SWITCH.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. GERHARD PECHÉ, 2. GUNTER BIALKOWSKI.

Application No. 379/Cal/83 filed March 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A vacuum switch comprising a movable contact aligned in the direction of movement with a stationary contact the stationary contact being supported by one end of a stud bolt extending longitudinally within a ceramic tube housing, the stud bolt being connected adjacent its other end via a concentrically arranged coupling to the ceramic tube housing so that the latter is resiliently supported in a vacuum-tight manner relative to the stud bolt, the coupling comprising an elastically deformable ring connected to the ceramic tube housing via an adjoining cylindrical wall and a soldered flange which is hard-soldered to the ceramic tube housing, the modulus of elasticity of the coupling being selected to be such that in the event of axial or radial pressure upon the ceramic tube housing the coupling is elastically deformed, so as to avoid the occurrence of forces sufficient to break the ceramic tube or the solder connection.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

CLASS : 159-E, F, G, J.

159267

Int. Cl. : B 61 I 25/00, 29/00.

#### TOTAL SECURITY TIME-DELAY CIRCUIT.

Applicant : JEUMONT-SCHNEIDER, OF 31-32, QUAI DE DION BOUTON, 92811 PUTEAUX CEDEX, FRANCE.

Inventor : 1. ETIENNE CAMUS.

Application No. 390/Cal/83 filed April 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim

A total security time-delay circuit furnishing a series of pulses, with the initial pulse being delayed by a minimum period of time established in response to a direct voltage level maintained at the input, with said circuit consisting of a pulse generator (1) which, upon establishment of said voltage level at the input terminal, provides pulses which control operation of a contact breaker (3) which is series-connected within a circuit including a capacitor (4) which is series-connected to the primary winding (5) of a transformer whereby the signal received at the terminals of the secondary winding (6) of the transformer controls operation of another contact breaker (7) so as to provide a threshold, the aforementioned circuit being characterized by the fact that, in as much as the second contact breaker (7) is series-connected to one end of a resistor (8) and a ground-connected Zener diode (9), with the other end of said resistor being connected to the input terminal of the previously cited pulse generator (1), the aforementioned capacitor (4) can be charged by means of another resistor (10), with one end of said resistor being connected to the input terminal of the pulse generator (1) while the other end of the resistor is connected to the junction point (11) of the second contact breaker (7) and the Zener diode (9), the junction point (11) being connected to the junction point for the primary winding (5) and the capacitor (4) by means of a third resistor (12), with delayed pulses being received at the first end of the first resistor (8) cited heretofore.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 158-C, D, B<sub>3</sub>.

159268

Int. Cl. : B 61 g 1/00; 3/00 & 5/00.

#### SLACKLESS RAILWAY DRAWBAR COUPLER ARRANGEMENT.

Applicant : AMSTED INDUSTRIES INCORPORATED OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, U.S.A.

Inventors : 1. RUSSELL GEORGE ALTHERR, 2. JOHN WALTER KAIM.

Application No. 394/Cal/83 filed April 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims

A slackless railway drawbar coupler arrangement comprising a drawbar received within a pocket beneath a railway car and characterized in that said drawbar comprises an elongated shank portion and a vertically and horizontally convex butt surface at an end thereof :

said drawbar further having near one end thereof a slot extending horizontally through the shank portion, said slot having an upper surface and lower surface each having a forward portion of which diverges away from the longitudinal centerline of the drawbar, a bar shaped key extending horizontally through said slot and pocket, and a bearing block between said key and the rear inner concave surface of the drawbar slot,

a follower block having a vertically an horizontally concave front surface abutting the convex butt end of the drawbar and a generally flat rear surface, wedge shaped shim, within said pocket which pocket is generally rectangular having two side walls, a bottom wall, a top wall and a generally flat interior rear surface, the flat surface of the follower block and of the pocket diverging upwardly, said follower block having a bottom surface resting on the bottom wall of said pocket to keep the concave front surface of the follower block vertically symmetrical with the drawbar slot.

said wedge shaped shim fitting between the flat interior rear surface of the pocket and the flat rear surface of the follower block such that by the gravity induced downward force of said shim, said drawbar butt end maintains butted contact with the front surface of the follower block, and the bearing block maintains contact with the inner concave surface of the drawbar slot and the key.

Compl. Specn. 11 pages.

Drgs. 3 sheets.

CLASS : 172-D<sub>3</sub>, 4, & 5.

159269

Int. Cl. : D 01 h 7/00,

D 01 h 7/74.

#### OPEN-END SPINNING ROTOR.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070, INGOLSTADT, GERMANY.

Inventor : 1. RUDOLF OEXLER.

Application No. 397/Cal/83 filed April 5, 1983

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An open-end spinning rotor, which is disposed on a rotor shaft, characterized in that the said rotor shaft has a centering section for centering the open-end rotor, and bears a collar wherein the centering section of the rotor shaft is radially fixed in a central opening of the rotor base, and a clamping disc is mounted and tensioned on the centering section in such a way that the clamping disc presses the spinning rotor against the collar, thus securing the spinning rotor on the rotor shaft.

Compl. Specn. 17 pages.

Drg. 1 sheet.

CLASS : 136 E.

159270

Int. Cl. : B29c-27/06 & F161-41/00, 47/00.

"DEVICE FOR HEATING AN UNDERLYING ELEMENT OF PLASTICS MATERIAL PRIOR TO MAKING A PERFORATION IN SAID UNDERLYING ELEMENT OF PLASTICS MATERIAL".

Applicant : INNOVATION TECHNIQUE, a Monegasque corporation of "Les Industries", Rue du Stade, Principality of Monaco, Manufacturers.

Inventor : GERARD GRANDCLEMENT.

Application for Patent No. 487/Del/1982 filed on 29th June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

A device for heating an underlying element of plastics material prior to making a perforation in said underlying element of plastics material, said device comprising a plate having a spiral groove in one face of said plate for receiving an electrical heating wire conductor snugly therein, said

groove terminating at an inner end thereof near a central portion of said plate and terminating at its other end near a periphery of said plate; characterised in that said plate is thin and flexible and made of a thermoplastic material, a central hole being provided in said plate, said central hole being spaced from said inner end of said groove; a pair of projections being located at the periphery of said plate diametrically opposite each other with respect to said central hole, said projections extending substantially perpendicular to said plate for accommodating wire-wrapped terminal portions of said wire conductor and a tongue for providing a connection from the terminal end of said conductor at said inner end of the spiral groove to one of said projections.

Compl. Specn. 18 pages.

Drgs. 3 sheets.

CLASS : 24 B.

159271

Int. Cl. : F 16d 55/02.

#### "A MOTOR CYCLE WHEEL IN COMBINATION WITH A DISC BRAKE".

Applicant : AUTOMOTIVE PRODUCTS PLC., of Tack-brook Road, Leamington Spa, Warwickshire CV31 3ER, England, a British company.

Inventor : RICHARD ARNOLD BASS.

Application for Patent No. 571/Del/1982 filed on 27th July, 1982.

Convention Date 29th August, 1981/8126424 and 18th March, 1982/8207952/(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

A motor cycle wheel in combination with a disc brake, said brake having an annular disc secured by fastening means at several positions around its outer peripheral margin to the wheel, the wheel being rotatable about an axis and a brake caliper straddling the inner periphery of the annular disc and fixed to one of a pair of fork legs wherein there is provided both a radial clearance between the fastening means and the annular disc and a limited axial play relative to the axis of rotation of the wheel between the wheel and the annular disc.

Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 32A.

159272

Int. Cl. : C09b 23/00 & 62/00.

#### "PROCESS FOR PREPARING CATIONIC METHINE DYESTUFFS".

Applicant : BAYER AKTIENGESELLSCHAFT, a German company of 5090, Leverkusen, Bayerwerk, West Germany.

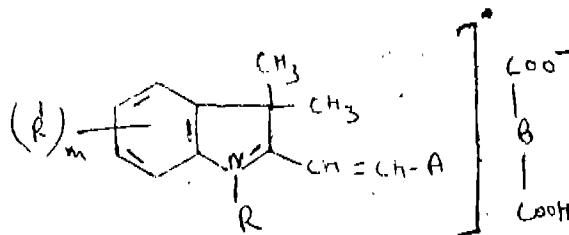
Inventors : RODERICH RAUE, VOLKER HUHNE & HANS PETER KUHLTHAU.

Application for Patent No. 612/Del/82 filed on 11th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

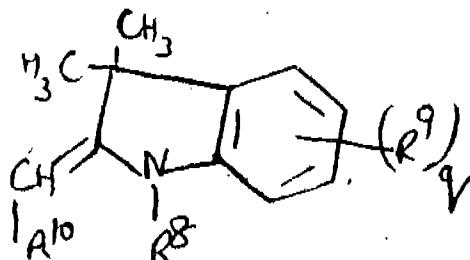
## 5 Claims

Process for preparing cationic methine dyestuffs of the general formula I



wherein R represents an alkyl radical having 1 to 4 C atoms and which is optionally substituted by hydroxyl, alkoxy having 1 to 4 C atoms, acyloxy, halogen, cyano, carboxy, C<sub>1</sub>-C<sub>4</sub>-carbalkoxy, carboxamide or acetyl, R<sup>1</sup> represents hydrogen, an alkyl radical having 1 to 4 C atoms, halogen, alkoxy having 1 to 4 C atoms, hydroxylalkoxy having 2-4 C atoms, a phenoxy radical which is optionally substituted by halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-alkoxy, benzyloxy, benzyl, carboxyl, an alkyl carboxylate having 1 to 4 C atoms, a carboxamide group optionally substituted by 1 or 2 C<sub>1</sub>-C<sub>4</sub> alkyl radicals, a sulphonamide group optionally substituted by 1 or 2 C<sub>1</sub>-C<sub>4</sub> alkyl radicals, alkylsulphonyl having 1 to 4 C atoms, phenylsulphonyl or a cyano, trifluoromethyl, acetyl or benzoyl group, and a radical having 1 to 4 C atoms and which is optionally substituted by hydroxyl, alkoxy having 1 to 4 C atoms, acyloxy, halogen, cyano, carboxy, C<sub>1</sub>-C<sub>4</sub>-carbalkoxy, carboxamide or acetyl, and a radical of the formula II

radical having 1 to 4 C atoms and which is optionally substituted by hydroxyl, halogen, alkoxy having 1 to 4 C atoms, cyano or acyloxy and R<sup>7</sup> denotes hydrogen, halogen, C<sub>1</sub>- to C<sub>4</sub> alkyl, C<sub>1</sub>- to C<sub>4</sub> alkoxy, carbalkoxy having 1 to 4 C atoms, C<sub>1</sub>- to C<sub>4</sub>-alkylsulphonyl, phenylsulphonyl, acetyl or benzoyl or a radical of the formula IV



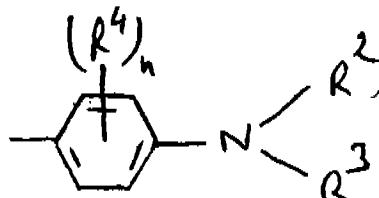
wherein R<sup>8</sup> and R<sup>10</sup> independently of one another have the same meaning as R and R<sup>1</sup>,

R<sup>10</sup> designates hydrogen or the cyano group,

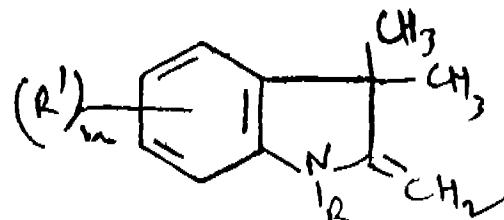
B represents a single bond or a C<sub>1</sub>- to C<sub>4</sub> alkylene radical which is substituted by hydroxyl radicals and which is optionally substituted by one additional carboxyl group and

the indices m, n, o and q independently of one another denote 1-4,

characterised in that a compound of the formula IX



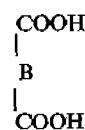
in which R<sup>2</sup> and R<sup>3</sup> independently of one another represent an alkyl radical having 1 to 4 atoms and which is optionally substituted by hydroxyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, halogen, cyano, phenyl, carbalkoxy having 1 to 4 C atoms, carboxamide, acyloxy benzyloxy, sulphonamide or acylamino, R<sup>2</sup> additionally also represents a phenyl or benzyl radical which is optionally substituted by halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub> to C<sub>4</sub>-alkoxy or R<sup>1</sup>, together with the adjacent C atom of the benzene ring halogen, cyano, phenyl, carbalkoxy having 1 to 4 C atoms carboxamide, acyloxy, benzyloxy, sulphonamido or acylamino, R<sup>2</sup> additionally also represents a phenyl or benzyl radical which is optionally substituted by halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub> to C<sub>4</sub>-alkoxy or R<sup>1</sup>, together with the adjacent C atom of the benzene ring, can form a partially hydrogenated N- and, if appropriate, O-containing 5- or 6-ring, and R<sup>4</sup> denotes hydrogen, an alkyl radical having 1 to 4 C atoms, an alkoxy radical having 1 to 4 C atoms or halogen, or a radical of the formula III



R, R<sup>1</sup> and m have the meaning indicated above is reacted with equimolar amounts of a compound of the formula X

A-CHO

A has the meaning indicated above and with 1 to 5 mols of a compound of the formula XI



in which

B has the meaning indicated above in the presence of 0-30% of an organic solvent such as described and 0-15% of water, the two percentages being relative to the total of the weights of the aldehyde and the methylene-indoline,

Process as claimed in claims 1 to 3, characterised in that the reaction is carried out at temperatures 40 and 120°C.

Compl. Specn. 34 pages.

Drgs. 7 sheets.

in which R<sup>6</sup> denotes an alkyl radical having 1 to 4 C atoms, a phenyl radical optionally substituted by halogen, C<sub>1</sub>- to C<sub>4</sub> alkyl or C<sub>1</sub> to C<sub>4</sub> alkoxy or a carbalkoxy radical having 1 to 4 C atoms, R<sup>6</sup> denotes hydrogen or an alkyl



said hot regeneration catalyst particles by indirect heat exchange with a cooling fluid, circulated through the heat exchange means to produce a stream comprising relatively cool regenerated catalyst particles which is withdrawn from a lower locus of said cooling zone, said catalyst particles being maintained in said cooling zone (3) as a dense phase fluidized bed by passing a fluidizing gas upwardly through the cooling zone (3) at a velocity sufficient to cause backmixing of said particles, the quantity of heat withdrawn from said catalyst particles in said cooling zone (3) being controllably maintained by controlling a combination of the quantity of said fluidizing gas passed into said cooling zone and the quantity of particles flow through said cooling zone, whereby the heat transfer co-efficient between said heat exchange means and said dense phase fluidized bed is controlled; and

- (e) recovering a product stream of hot regenerated catalyst particles from said disengagement zone (2) at a temperature which is indirectly controlled by the amount of heat removed in cooling step (d).

Compl. Specn. 41 pages.

Drgs. 3 sheets.

CLASS : C 87 B & G.

159276

Int. Cl. : F 02 b, 15/00, 43/00 & F 02 m 21/02.

**"AN INTAKE GAS RESONANCE DEVICE FOR USE WITH INTERNAL COMBUSTION ENGINES".**

Applicant(s) : AUTOIPARI KUTATO INTEZET, of Budapest, Csoka U. 7-13, 1115 Hungary, a Hungarian company.

Inventor(s) : DR. GYULA CSER DIPL. ING.

Application for Patent No. 765/Del/1982 filed on 19th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims**

An intake gas resonance device for use with a reciprocating piston type internal combustion engine with a plurality of engine cylinders whose suction strokes do not significantly overlap, each including an intake opening;

said intake gas resonance device comprising a resonator vessel communicating with the intake openings of the cylinders of said group, said resonator vessel having a volume and an inner wall face;

a resonance tube having an end operatively coupled to said resonator vessel for communicating therewith; said resonance tube having a longitudinal axis and a volume; said end of said resonance tube being located opposite said inner wall face of said resonator vessel a resonating space having a volume composed of said volume of said resonator vessel and an average cylinder volume related to one cycle of oscillation and communicating with said resonator vessel during one oscillating cycle characterised in that the distance between said end of said resonance tube and said inner wall face of said resonator vessel as measured along said longitudinal axis of said resonance tube being greater than the diameter of a circle whose area equals the cross-sectional area taken at said end of said resonance tube; said resonance tube having a first and second tube portions said first portion reducing velocities of gases passing through said resonance tube into said resonator vessel; said first portion gradually widening and forming part of said resonance tube and terminating in said end; said first portion having cross-sectional areas continuously increasing towards said resonator vessel said second portion flaring away from said resonator vessel and having cross-sectional areas increasing in a direction away from said resonator vessel; a cross sectional area taken at said end of the resonance tube perpendicularly to said longitudinal axis being at least 1.2 times greater at its flaring ends than a cross section of minimum areas of said tube at said portions with said cross section being substantially spaced from said end; and said

volume of said resonating space being at least 2.5 times greater than said volume of said resonance tube.

Compl. Specn. 32 pages.

Drgs. 2 sheets.

CLASS : 102 B, D & 24 D4, E.

159277

Int. Cl. : F 15b, 3/00, 15/02 & F16d-65/14, 65/32.

**"FLUID PRESSURE OPERABLE DIAPHRAGM ACTUATORS".**

Applicant : BENDIX LIMITED, a British company of Douglas Road, Kingswood, Bristol, BS15 2NL England.

Inventors : DAGGER NORMAN & JOSEPH IAN.

Application for Patent No. 865/Del/1982 filed on 24th November, 1982.

Convention date 2-12-81/8136344/(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**6 Claims**

A fluid pressure operable diaphragm actuator having a housing containing a pressure chamber one wall of which is formed by a diaphragm, a push plate co-operable with the diaphragm and a push rod connected thereto extending outwardly of the housing via the bore of a tube which is a fixed part of the housing wherein the push rod has at least one packing member located thereon which is guidingly slideable in the said tube and a resilient anti contaminant scraper means acting inwardly of the packing member for protecting the outward end of the tube against contaminants passing thereto from the actuator.

Compl. Specn. 6 pages.

Drg. 1 sheet.

CLASS : 132 A<sub>2</sub>, B<sub>2</sub>.

159278

Int. Cl. : B 01 f-7/00.

**"MIXING APPARATUS FOR MIXING A LIQUID OR A LIQUID SUSPENSION MEDIUM".**

Applicant(s) : GENERAL SIGNAL CORPORATION, of High Ridge Park, Stamford, Connecticut, United States of America, a corporation organised under the laws of the State of New York, U.S.A.

Inventor(s) : RONALD JOHN WEETMAN.

Application for Patent No. 891/Del/1982 filed on 7th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**23 Claims**

Mixing apparatus for mixing a liquid or a liquid suspension medium which comprises a vessel for holding said liquid or liquid suspension with a shaft provided within the vessel upon the axis of which an impeller is mounted below the level of the liquid or liquid suspension, said impeller comprising a plurality of blades mounted on said shaft for rotation about said axis, each of said blades being formed of a plate and having a tip a base, a leading edge and a trailing edge, characterised in that said leading edge has a contoured or substantially curved profile, each of said blades having a camber which decreases from approximately 8% at said tip to 0% in a region adjacent said base, each of said having a geometric pitch angle which is from 12° to 32° at said tip thereof and increases from said tip to said base to an angle which provides threshold flow separation conditions for said medium from the surface of said blade along the width thereof from said leading to said trailing edge thereof whereby maximum flow of said medium in the direction axially of said shaft is obtained before the onset of said separation.

Compl. Specn. 22 pages.

Drgs. 2 sheets.

CLASS : 76 E &amp; 138 D, E. 159279

Int. Cl. : B25c, 5/00, B25b, 27/00, B65c, 7/00 &amp; F16b, 15/00.

## 'APPARATUS FOR DISPENSING FASTENERS'.

Applicant : DENNISON MANUFACTURING COMPANY, a corporation of the State of Nevada, with a principal place of business at 300 Howard Street, Framingham, Massachusetts 01701, United States of America.

Inventor : ARNOLD ROBERTS BONE.

Application for Patent No. 920/Del/1982 filed on 16th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

Apparatus for dispensing fasteners which comprises :

housing means for receiving an assembly of fasteners; a slotted hollow needle at the front portion of said housing through which said fasteners are adapted to be expelled individually from said housing means; means within said housing at the base of said slotted hollow needle for feeding and aligning an individual fastener with the bore of said needle;

expulsion means also within said housing and connected to said feeding and aligning means for the expulsion of an individual fastener into the bore of said slotted hollow needle;

control means in the form of a lever one end of which is pivotally connected to said expulsion means; and trigger means provided in spring-loaded connection with said housing, the opposite end of said control lever being pivotally connected to said trigger means whereby on depressing trigger, the end of said lever pivotally connected to said expulsion means moves in a linear path between two fixed points provided on said expulsion means for effecting a controlled movement of said expulsion means and thereby an activation of said feeding and aligning means connected thereto to align an individual fastener with the bore of said hollow slotted needle and to expel it therethrough.

Compl. Specn. 16 pages.

Drgs 3 sheets.

CLASS : 77B<sub>2</sub> & C.

159280

Int. Cl. : A 23d c 5/00. n

## 'A PROCESS FOR TREATING NATURAL FATTY SUBSTANCE TO PRODUCE ONE OR MORE EDIBLE FRACTION'.

Applicant : LESIEUR-COTELLE & ASSOCIES S.A., a French Joint Stock company of 122, avenue due General Leclerc, Boulogne sur Seine (Hauts de Seine), France.

Inventor : JEANMARIE KLEIN AND ALBERT LACOME.

Application for Patent No. 76/Del/1983 filed on 7th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

A process for the treatment of natural fatty substance for the production of edible fractions, comprising primary stages of fractionation of the oil to be treated by means of suitable fat-fractionating solvents, which are present in an amount from 0.5 to 7 times the weight of the oil, at temperature of from +35°C to —20°C, to produce one or two solid fractions, which are washed with fresh solvent,

and an intermediate fluid fraction, and a stage of interesterification of the intermediate fluid fraction, which is carried out in the presence of a suitable interesterification catalyst at a temperature of from 20° to 80°C, said primary fractionation stages being associated with a complementary stage of fractionation of the intermediate interesterified fluid fraction and optionally being associated with complementary stages of fractionation of the solid fraction or fractions, the complementary fractionating stages using a suitable fat-fractionating solvent in order to produce four fractions that have properties of edible fats, namely : a fluid fraction with an iodine number of higher than 80, containing more than 20% of unsaturated triglycerides, and free of trans isomers : a solid fraction having an iodine number of from 31 to 43, that essentially contains 2-oleo-1, 3-dipalmitin (POP) a solid fraction (SSI/SII) with an iodine number of from 33 to 43, that contains mixed triglycerides : and a solid fraction (SSS) with an iodine number of lower than 20 and essentially containing saturated triglycerides, whereby all fractions retain their properties as edible oils and solids.

Compl. Specn. 53 pages.

Drgs. 3 sheets.

CLASS : 32F<sub>3</sub> (b) & (c).

159281

Int. Cl. : C07c 63/00.

## 'A PROCESS FOR THE PREPARATION OF TRIMETHYL ETHER OF GALLIC ACID FROM TERMINALLIA CHEBULA FRUITS'.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : SUDAN CHANDRA BASA AND CHAK-KIRALA SRINIVASULU.

Application for Patent No. 9/Del/1983 filed on 7th January, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A process for the preparation of trimethyl ether of gallic acid from *Terminalia chebula* fruits comprising subjecting the fruit cover of *Terminalia chebula* to hydrolysis by known methods and extracting the hydrolysate with organic solvent and methylating by known methods the extract so obtained to the trimethyl ether.

Compl. Specn. 9 pages.

CLASS : 32F<sub>3</sub> (a).

159282

Int. Cl. : C07c 69/00.

## 'PROCESS FOR THE PREPARATION OF ALLYLIC AND BENZYLC ESTERS'.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : KAMBADUR NAGARAJARO GURUDUTT, BHAGAVATHULA RAVINDRANATH AND PULLABHATIA SRINIVAS.

Application for Patent No. 59/Del/1983 filed on 12th February, 1983.

Complete specification left on 2nd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

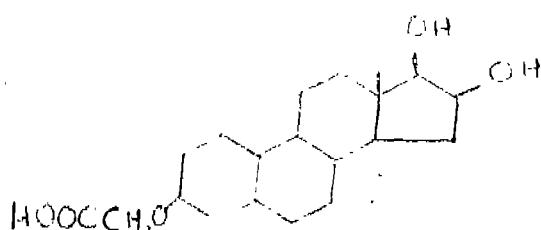


Application for Patent No. 114/Del/1983 filed on 22nd February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

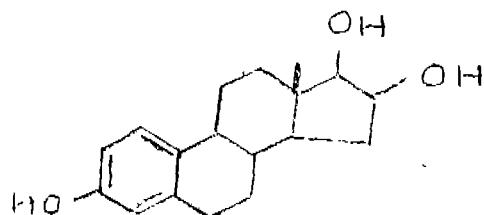
5 Claims

An improved process for the preparation of estriol 30-carboxymethyl ether of formula III comprising reacting estriol of

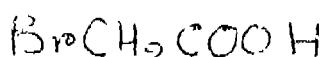


9

formula I with a bromo acetic acid of formula II and solid



10



11

potassium hydroxide, wherein R is an alkyl group like methyl, ethyl or propyl and a like radical and separating by known methods the ether formed.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 85 H.

159287

Int. Cl. : F27d 1/04.

"A PROCESS FOR THE MANUFACTURE OF HIGH STRENGTH INSULATING BRICKS".

Applicant : CEMENT RESEARCH INSTITUTE OF INDIA, M-10 South Extension, Part-II, Ring Road, New Delhi-110 049, India, an Indian Institute.

Inventors : VARANASI VENKATA SUBBA RAO, SHIBAN JI RAINA, SATISH CHANDRA SHARMA, ASHWANI PAHUJA & SURINDER KRISHAN CHOPRA.

Application for Patent No. 201/Del/1983 filed on 30th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A process for the manufacture of high strength insulating bricks which comprises in preparing a wet homogenous mix consisting of 30 to 40% by weight of grog, such as fireclay grog, 40 to 60% by weight of plastic fireclay and 10 to 20% by weight of a porosity inducing agent consisting of an organic based material having a burning tempera-

ture not exceeding 600°C, introducing said raw mix into moulds to form moulded bricks, and then subjecting said moulded bricks to the step of firing and then cooling the fired brick.

Compl. Specn. 10 pages.

CLASS : 32-E.

159288

Int. Cl. : C 08 f 27/02.

"PROCESS FOR THE CONTINUOUS PRODUCTION OF A HALOGENATED POLYMERS".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, a corporation of Delaware, United States of America, carrying on business as a company for the holding of patents and granting licences thereunder, and technical development and research work at 200 Park Avenue, Florham Park, New Jersey, United States of America.

Inventor : RONALD CHARLES KOWALSKI & NEIL FREDERICK NEWMAAN.

Application for Patent No. 239/Del/83 filed on 11th April 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

39 Claims

A process for the continuous production of a halogenated polymer by introducing a polymer into a feed zone wherein said polymer is subjected to conditions of temperature and pressure sufficient to generate a cohesive mass; passing said polymer through a first flow restriction zone to a reaction zone wherein a halogenating agent is injected into said polymer mass while the polymer and halogenating agent are subjected to a high degree of mixing, passing the resulting product mixture through a second flow restriction zone into a neutralizing zone wherein neutralizing agent is injected into said product mixture to neutralize said product mixture, and delivering said halogenated polymer product from said neutralizing zone, wherein said polymer is passed through said zone by extrusion.

Compl. Specn. 33 pages.

Drg. Nil.

CLASS : 32 B & 56 E.

159289

Int. Cl. : C107 c/08.

"A CONTINUOUS SOLVENT EXTRACTION-STEM DISTILLATION (ENERGY EFFICIENCY) PROCESS FOR THE RECOVERY OF AROMATIC HYDROCARBONS".

Applicant : UNION CARBIDE CORPORATION, Manufacturers, organized and existing under the laws of the State of New York, United States of America, with offices at Old Ridgebury Road, Danbury, State of Connecticut, 06817, United States of America.

Inventors : JOSE ANTONIO VIDUEJRA, KENNETH FRANCIS BUTWELL & PAULINO FORTE.

Application for Patent No. 360/Del/1983 filed on 30th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A continuous solvent extraction-steam distillation energy efficiency process for the recovery of aromatic hydrocarbons in the range of C<sub>6</sub> to C<sub>8</sub> from a feedstock containing such aromatics and aliphatic hydrocarbons in the range of C<sub>3</sub> to C<sub>10</sub> wherein, said process comprises :

- (a) providing a distillation zone and two flash zones;
- (b) passing an aromatic rich solvent stream such as herein described through said flash zones where they are let down and partially vaporized to obtain overhead vapor streams;

- (c) passing the unvaporized portion of the aromatic rich solvent from step (b) to the top of the distillation zone where it is contacted with a stream of steam to further remove the remaining heavy non-aromatic components from said aromatic rich solvent;
- (d) combining the overhead vapor streams from the two flash zones with a vapor stream of water and hydrocarbons from the distillation zone and heat exchanging the combined stream with a stream of water;
- (e) contacting the unvaporized aromatic rich solvent from step (b) with a stream of steam at the bottom of the distillation zone to remove substantially all aromatic hydrocarbons from said solvent stream;
- (f) removing aromatics, water, and a small amount of impurities as a sidetrap product and heat exchanging said sidetrap product stream with a stream of water;
- (g) condensing the combined overhead vapor stream in step (d) and the sidetrap product stream in step (f), respectively, after heat exchange, and separating the condensates into a hydrocarbon rich phase and a water rich phase;
- (h) combining the water rich phase of the combined overhead vapor stream and the sidetrap product stream, thereby providing the water streams used for heat exchange in step (d) and step (f);
- (i) compressing the water vapor stream of step (h) after heat exchange and recycling it to the bottom of the distillation zone to provide steam for step (e);
- (j) driving a turbine with steam and feeding a portion of the superheated steam produced from said turbine to drive a reboiler under conditions sufficient to maintain good heat quality as hereinbefore described;
- (k) passing an aromatic rich solvent stream from the distillation zone to the reboiler in heat exchange relationship with a vapor stream of steam from step (j);
- (l) utilizing the remaining portion of the superheated steam from step (j) in other parts of the refinery where a net energy saving could be realized as hereinbefore described.

Compl. Specn. 26 pages.

Drg. 1 sheet.

CLASS : 55-D<sub>2</sub>.

159290

Int. Cl. : A 01 n 17/00.

## GRANULAR PESTICIDE COMPOSITION.

Applicant : PENNWALT CORPORATION, PENNWALT BUILDING, THREE PARKWAY, PHILADELPHIA, PENNSYLVANIA 19102, UNITED STATES OF AMERICA.

Inventor : 1. MICHAEL JOSEPH MAGLIO.

Application No. 1298/Cal/83 filed October 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

Process for preparing a granular slow release soil pesticide composition comprising by weight based on the total composition of from about 5 to about 90% of polyvinyl alcohol, from about 1 to about 20% of a borate, from 2 to 50% of a compatible pesticide and upto 80% of

filler(s) which comprises mixing (a) an aqueous solution of polyvinyl alcohol wherein the solids concentration of polyvinyl alcohol is about 10% and a compatible pesticide and optionally at least one filler(s) selected from the class consisting of diatomites, attapulgites, bentonites, talcs, montmorillonites, perlites, vermiculites, calcium carbonates, corn cob grits, wood flour, lignin sulfonates and mixtures thereof with (b) a borate until ingredients (a) and (b) react to form a gel, drying the gel, and grinding the dried product to the desired particle size.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 128-G.

159291

Int. Cl. : A 61 b 1/00.

## A TEMPERATURE MEASURING DEVICE FOR DETECTING THE OVULATION OF WOMEN.

Applicant & Inventor : WERNER WEILAND, KOBLENZ-OLPER STRASSE 172, D-5413 BENDORF-SAYN, WEST GERMANY.

Application No. 401/Cal/83 filed April 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 23 Claims

A temperature measuring device for determining ovulation of women comprising a sensor for temperature (9, 103) adapted to be secured on the body (30) or in a body opening (1), a temperature measuring instrument (109) connected to the sensor (9, 103) and indicating device such as an indicator (108) connected to the temperature measuring instrument (109) like microprocessor or a signal transmitter (13) actuated by the sensor (9).

Compl. Specn. 14 pages.

Drgs 2 sheets.

CLASS : 39-K.

159292

Int. Cl. : C 01 b 17/72.

## AN IMPROVED PROCESS FOR THE PRODUCTION OF SULFURIC ACID.

Applicant : MONSANTO COMPANY, AT 800 NORTH LINDBERG BOULEVARD, ST. LOUIS, MISSOURI 63167, UNITED STATES OF AMERICA.

Inventors : 1. JOHN SHEPUTIS, 2. PAUL ROBERT MINBIOLE.

Application No. 439/Cal/83 filed April 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

An improved process for the production of sulfuric acid comprising :

creating a gas stream containing a concentration of at least approximately 12% sulfur dioxide;

converting said sulfur dioxide to sulfur trioxide in a converter having first and second oxidation stages, said first oxidation stage having at least three catalyst beds and said second oxidation stage having at least two catalyst beds; and

absorbing said sulfur trioxide to provide sulfuric acid in an interpass absorption tower following said first oxidation stage and further absorbing said sulfur dioxide in a final absorption tower following said second oxidation stage.

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 9-A; 12-C. 159293

Int. Cl. : C 22 c 21/02; C 22 f 1/00; C 21 d 9/48.

## METHOD OF MAKING SHEETS OF ALUMINIUM ALLOY SUITABLE FOR DRAWING.

Applicant : SCAL SOCIETE DE CONDITIONNEMENTS EN ALUMINIUM OF 47, RUE DE MONCEAU 75008, PARIS, FRANCE.

Inventors : 1. FRANCOIS-REGIS BOUTIN, 2. JAN KUBIE.

Application No. 500/Cal/83 filed April 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A method of making sheets of aluminium alloy suitable for drawing comprising the steps of :

- (a) casting the alloy between cylinders to form a strip;
- (b) subjecting the strip to mechanical cleaning to enable most of the particles deposited on the surface and the thick oxide layer formed during casting to be eliminated;
- (c) reforming an oxide anti-galling layer on the surface of the strip by heat treatment carried out at elevated temperature in air intermittently over a period of 4 to 8 hours at a temperature in the range of 520° to 550°C, or continuously over a period of 1 to 10 minutes at a temperature in the range of 600° to 620°C;
- (d) subjecting the strip coated with the layer to the rolling operations to convert it in a sheet with a thickness of the order of 300 µm in a series of passes optionally separated by annealing treatment;
- (e) cutting discs from the sheet; and
- (f) subjecting discs to deep drawing and ironing.

Compl. Specn. 15 pages.

Drg. Nil.

CLASS : 129-Q. 159294

Int. Cl. : B 23 k 27/00.

## AN APPARATUS FOR WELDING A WORKPIECE REQUIRING A PREDETERMINED WELDING SEQUENCE TO BE EFFECTED AND METHOD FOR MANUFACTURING LEAD STORAGE BATTERY BY EMPLOYING THE APPARATUS.

Applicant : GNB BATTERIES INC., OF 1110 HIGHWAY 110, MENDOTA HEIGHTS, MINNESOTA 55118, UNITED STATES OF AMERICA.

Inventors : 1. DANIEL ORLANDO, 2. DAVID LEE LUND, 3. GLENN RICHARD WABER.

Application No. 503/Cal/83 filed April 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

An apparatus for welding a workpiece requiring a predetermined welding sequence to be effected which comprises :

- (a) at least one welding station having welding means for welding said workpiece;
- (b) conveying means for moving said workpiece through said welding station;
- (c) aligning and retaining means for positioning said workpiece in at least one predetermined position in said welding station relative to said welding means;

- (d) sensing means for determining the presence of said workpiece at said predetermined position;
- (e) means capable of moving said welding means and said workpiece at said predetermined position back and forth relative to each other from an inoperative position to an operative position for welding said workpiece;
- (f) master control means for controlling the means identified in subparagraphs (a) through (e) in accordance with a predetermined sequence to effect the welding sequence required; and
- (g) slave control means at said welding station capable of receiving welding instructions from said master control means, operating said welding means pursuant to said instructions and signalling said master control means when welding has been completed.

Compl. Specn. 41 pages.

Drgs. 5 sheets.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undenoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

## (1)

150902.

## (2)

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|--------|--------|--------|--------|--------|--------|--------|
| 153087 | 153088 | 153089 | 153090 | 153091 | 153092 | 153093 |
| 153094 | 153095 | 153096 | 153097 | 153098 | 153099 | 153100 |
| 153101 | 153102 | 153103 | 153104 | 153105 | 153106 | 153107 |
| 153108 | 153109 | 153110 | 153111 | 153112 | 153113 | 153114 |
| 153115 | 153116 | 153117 | 153118 | 153119 | 153120 | 153121 |
| 153122 | 153123 | 153124 | 153125 | 153126 | 153127 | 153128 |
| 153129 | 153130 | 153131 | 153132 | 153133 | 153134 | 153135 |
| 153136 | 153137 | 153138 | 153139 | 153140 |        |        |

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| 153141  | 153142 | 153143 | 153144 | 153145 | 153146 | 153147 |
| 153148  | 153149 | 153150 | 153151 | 153152 | 153153 | 153154 |
| 153155  | 153156 | 153157 | 153158 | 153159 | 153160 | 153161 |
| 153162  | 153163 | 153164 | 153165 | 153166 | 153167 | 153168 |
| 153169  | 163170 | 153171 | 153172 | 153173 | 153174 | 153175 |
| 153176  | 153177 | 153178 | 153179 | 153180 | 153181 | 153182 |
| 153183  | 153184 | 153185 | 153186 | 153187 | 153188 | 153189 |
| 153190. |        |        |        |        |        |        |

## PATENTS SEALED

|        |        |        |         |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|
| 155998 | 156398 | 156405 | 156594  | 156917 | 156966 | 157020 |
| 157133 | 157134 | 157135 | 157136  | 157137 | 157138 | 157253 |
| 157274 | 157275 | 157334 | 157410  | 157411 | 157414 | 157415 |
| 157418 | 157419 | 157420 | 157421  | 157425 | 157428 | 157429 |
| 157433 | 157434 | 157442 | 157444  | 157445 | 157447 | 157451 |
| 157458 | 157462 | 157682 | 157699. |        |        |        |

## AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendment proposed by Paramac Chemicals Limited, in respect of Patent No. 157649 as advertised in the Part III, Section 2 of the Gazette of India dated the 25th October, 1986 has been allowed.

## COMMERCIAL WORKING OF PATENTED INVENTIONS

MECHANICAL & GEN. ENGGR.  
List—I.

The following patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146 (2) of Patents Act, 1970, in respect of calender year 1985 generally on account of want of request for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

| Patent No. | Date of Patent | Name & Address of the Patentee   | Title of the Invention   |
|------------|----------------|--|--|
| 1          | 2              | 3  | 4  |
| 134415     | 12-9-1972      | COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India. | Process for the preparation of high purity water by solar stills.  |
| 137375     | 18-12-1972     | Do.  | Improvements in or relating to process for construction of this impermeable and durable cut off walls.                             |
| 139230     | 26-4-1974      | Do.  | Improvements in or relating to making sand-lime type bricks using flyash.  |
| 139454     | 7-1-1974       | Do.  | Improvements in or relating to paint stripper.   |
| 142650     | 22-4-1978      | Do.  | Pencil type coating thickness gauge.   |
| 143061     | 24-9-1977      | Do.  | A process for making prestressed concrete poles and portable column mould assemblies therefor.                                     |
| 143731     | 21-1-1978      | Do.  | A process of making an alcohol breath analyser and an apparatus obtained by such process.  |
| 144295     | 9-8-1976       | Do.  | Improvements in or relating to the wind detection recorder.  |
| 144803     | 9-8-1976       | Do.  | A high output stove.   |
| 146941     | 7-11-1976      | Do.  | Universal friction and wear test rig.  |
| 149410     | 8-9-1978       | Do.  | A compact device for the simultaneously measuring the settlement characteristics of building and like civil engineering structure. |
| 149607     | 18-12-1977     | Do.  | Support means for civil engineering structure.   |
| 149662     | 5-5-1978       | Do.  | A new semi-automatic machine for the manufacture of building blocks by moulding under high pressure.                               |
| 151471     | 6-4-1979       | Do.  | An improved flat knitting machine with automatic needle selection system.  |
| 151651     | 12-12-1979     | Do.  | Pump for lifting water from one level to higher level.   |
| 151658     | 10-7-1980      | Do.  | A device for delineation of subsurface structures.   |
| 152056     | 28-4-1980      | Do.  | Clean up device for gases ban support of roof of tunnels in under ground mines.  |
| 152137     | 22-5-1979      | Do.  | Improved hydraulically driven circumferential prestressing machine for concrete pipes.   |
| 152996     | 2-9-1978       | Do.  | An improved resilient antivibration mounting for a machine to be fitted on a foundation or supporting structure.                   |

| 1      | 2          | 3  | 4   |
|--------|------------|--|---|
| 153547 | 13-12-1979 | CGUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, K. I. Marg, New Delhi-1, India.                     | Measurement of bulk volumes of solid samples.   |
| 145580 | 20-7-1971  | Do.  | A discharge system for discharge of processed material from shaft kiln.   |
| 151042 | 17-2-1979  | Do.  | A machine for chipping wood into fine chips.  |
| 153765 | 23-4-1981  | Do.  | An improved process for recovery of tin metal from tin scruff.  |
| 154077 | 28-4-1980  | Do.  | An improved air spore sampler device.   |
| 153049 | 23-8-1979  | UNION CARBIDE CORPORATION,<br>270 Park Avenue New York, State of New York, 10017 U.S.A.          | Threaded joints.  |
| 153244 | 24-1-1979  | Do.  | Improved ultrafiltration and reverse osmosis device.  |
| 153390 | 9-11-1979  | Do.  | Dry, particulate, inorganic ultrafiltration membranes and the production thereof.   |
| 158772 | 5-3-1980   | Do.  | Apparatus for refining molten metal.  |
| 152610 | 16-7-1979  | SOLAR HOLDINGS S. A.<br>Panama City, Republic of Panama.   | Solar energy collector.   |
| 152850 | 24-7-1979  | G. D. SOCIETA PER AZIONI,<br>via Pomponia, 10 Blegno, Italy.                                     | An improved apparatus for forming and overwrapping batches of products.   |
| 152925 | 9-8-1979   | Q Corporation, 755, West Big Beaver Road, Troy Michigan 48084, U.S.A.                            | Apparatus for extracting energy from the motion of water beneath waves in a large body of water such as an ocean or a lake. |
| 153003 | 29-8-1979  | SOCIETE INTER-NATIONALE DE MÉCANIQUE INDUSTRIELLE S. A.<br>37 rue Notre-Dame, Luxembourg.        | Fluid seal assembly.  |
| 153008 | 20-9-1979  | AMERICAN FLANGE & MANUFACTURING COMPANY, INC.<br>1100 West Blancké Street, Linden, New Jersey.   | Nestable moulded plastic pouring assembly.  |
| 153103 | 17-9-1979  | USS ENGINEERS AND CONSULTANTS INC.<br>100 Grant Street, Pittsburg, state of Pennsylvania, U.S.A. | An apparatus for controlling the flow of liquid metal from the pour opening of a melting vessel.                            |
| 153186 | 26-9-1979  | GENERAL SIGNAL CORPORATION—<br>High Ridge, Stamford, Connecticut 06904, U.S.A.                   | Butterfly valve.  |
| 153364 | 20-11-1979 | ALUMINUM COMPANY OF AMERICA,<br>Alcoa Building, Pittsburgh, Pennsylvania, U.S.A.                 | Damping spacer for overhead conductors.   |
| 153370 | 26-11-1979 | G. D. SOCIETA PER AZIONI—<br>via Pomponia, 10 BOLOGNA, Italy.                                    | Device for feeding and adjusting a continuous web and for cutting it into portions.   |
| 153380 | 19-9-1979  | BETHLEHEM STEEL CORPORATION,<br>Bethlehem, Pennsylvania 18016, U.S.A.                            | A wrought product of a biaxially oriented semi-crystalline thermoplastic polymer.   |
| 153381 | 25-9-1979  | SOCIÉTÉ D'ÉTUDES DE MACHINES THERMQUES, S. E. M. T., 2 Quai De Seine, 93222 Saint Denis, France. | Improvement in or relating to a mushroom valve with forced fluid cooling, in particular for an internal combustion engine.  |
| 153395 | 13-11-1979 | TBA INDUSTRIAL PRODUCTS LIMITED,<br>20 St. Mary's Parsonage, Manchester M3 3NE, England.         | A process for the production of solid woven conveyor belting and solid woven conveyor belting so produced.                  |
| 153401 | 15-11-1979 | JACQUES WYBAUW<br>41, Avenue Brunard, 1180 Bruxelles, Belgium                                    | Prefabricated building.   |

| 1      | 2          | 3  | 4  |
|--------|------------|--|--|
| 153420 | 5-12-1979  | THE LAITRAM CORPORATION,<br>State of Louisiana United States of America.   | Ladder.  |
| 153542 | 5-12-1979  | MARSHALL RICHARDS BARCRO<br>LIMITED, Grock County<br>Durham DL 15 8JU, England.  | Improved wire drawing method and apparatus and the wire made therefrom.                          |
| 153554 | 8-1-1980   | THE GOODYEAR TIRE & RUBBER COMPANY, 1144 East Market Street, Akron, Ohio, U.S.A.   | A heavy truck tire.  |
| 153625 | 21-1-1980  | SOCIETE D'ETUDES DE MACHINES<br>THERMIQUES, S.E.M.T.<br>2 Quai De Seine, 93202 Saint Denis, France                                 | Cam control device for a four-stroke internal combustion engine.                                 |
| 153632 | 5-2-1980   | MOBIL SOLAR ENERGY CORPORATION,<br>16 Hickory Drive, Waltham, Massachusetts<br>United States of America.                           | Belt-roller crystal pulling mechanism.   |
| 153810 | 12-3-1980  | CLARK & VICARIO CORPORATION<br>10600 Endeavour Way, Pinellas Park,<br>Florida 33565, U.S.A.  | Apparatus for cleaning and deaerating an aqueous suspension of papermaking stock.                |
| 154080 | 1-5-1980   | DUNLOP LIMITED,<br>Dunlop House, Ryder Street St. James's<br>London SW 1Y, 6PX, England.   | Integrally-moulded shuttlecock skirt and a shuttlecock having such a skirt.                      |
| 154324 | 17-8-1979  | SOCIETE NATIONALE INDUSTRIELLE<br>AEROSPATIALE,<br>37 Boulevard de Montmorency, Paris,<br>France.                                  | A device for limiting the flapping movements of the blades of a rotary-wing aircraft main rotor. |
| 154376 | 20-5-1980  | G.D. SOCIETA<br>PER AZIONI, via Pomponia, 10 Bologna,<br>Italy.  | Trimmer device for the tobacco filter in a cigarette manufacturing machine.                      |
| 154377 | 21-5-1980  | BERTHOLD HALLER KG,<br>Aldingen, Brunnestrasse 20, F.R.G.  | Shutter blind.   |
| 154379 | 23-5-1980  | SOCIETE D'ETUDES DE MACHINES<br>THERMIQUES, S.E.M.T. 2 Quai<br>de Seine, 93202 Saint Denis, France.                                | Improvements in or relating to a fuel injection pump of internal combustion engine.              |
| 154399 | 14-7-1980  | SHELL INTERNATIONALE RESEARCH<br>MAATSCHAPPIJ B. V.<br>Carel Van Bylandtlaan 30, The Hague, The<br>Netherlands.                    | A dispenser.   |
| 154511 | 22-7-1980  | TOYO ENGINEERING CORPORATION<br>2-5, Kasumigaseki, 3-Chome, Chiyoda-Ku,<br>Tokyo, Japan.   | Granule producing apparatus.   |
| 154567 | 4-9-1980   | THE NATIONAL ENGINEER RESEARCH<br>& DEVELOPMENT CENTRE, T.D.B.<br>Industrial Estate, Block No. 2P/178 Ekala,<br>Ja-ela, Sri Lanka. | An improvement on the cross flow double shot hydro turbine for increasing efficiency.            |
| 148427 | 21-11-1977 | G.D. SOCIETA PER AZIONI<br>via Pomponia, 10 Bologna, Italy.  | Labelling device.  |
| 148670 | 1-9-1978   | BELOIT WALMSBY LTD,<br>Atlas Works Bury, Lancashire, England.  | Improvements relating to forming machines for paper webs.  |
| 148729 | 19-1-1978  | SICO INCORPORATED,<br>7525 Cahill Road, Minneapolis Minnesota,<br>U.S.A.   | Folding wall table.  |
| 148872 | 27-1-1978  | AMERICAN FLANGE & MANUFACTURING COMPANY, INC 1101<br>West Blanck Street-Linden New Jersey, U.S.A.                                  | Closure plug.  |
| 150168 | 26-10-1978 | Do.  | Dispensing cartridge and closure combination.  |

| 1      | 2         | 3   | 4  |
|--------|-----------|---|--|
| 152057 | 14-5-1979 | GOODYEAR TIRE & RUBBER CO.,<br>1144 East Market Street, Akron, Ohio,<br>U.S.A.            | Apparatus for forming traction grooves in the<br>uncured tread of a heavy off-high-way tire. |
| 148060 | 23-2-1977 | TOYOTA JIDOSHA KOGYO KABUSHIKI<br>KAISHA,<br>1, Toyota-cho, Toyota-shi, Aichi-ken, Japan. | 2-cycle engine of an active thermoatmosphere<br>combustion type.                             |
| 152475 | 22-6-1979 | SOUTHWIRE COMPANY,<br>126 Fertilla Street, Carrollton, Georgia<br>30117, U.S.A.           | Method for heating and melting a non-ferrous<br>metal charge in furnace.                     |
| 153781 | 25-1-1980 | MOBIL SOLAR ENERGY CORPORATION,<br>16 Hickory Drive, Waltham, Massachusetts,<br>U.S.A.    | Apparatus for and method of growing a cry-<br>stalline body of silicon from a melt.          |
| 154501 | 22-5-1980 | Do.   | Method of growing a crystalline body of<br>silicon from a silicon melt.                      |

MECH. / ENGG. LIST  
NO. II

## COMMERCIAL -WORKING OF THE PATENTED INVENTION

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the Statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar Year 1985, generally on account of want of requests for licences to work the Patented Inventions. Persons who are interested to work the said Patents Commercially may contact the Patentees for the grant of licenses for the purpose.

| Patent No. | Date of Patents. | Name and Address of the Patentees.   | Title of the Invention.   |
|------------|------------------|--|---|
| 1          | 2                | 3  | 4   |
| 134518     | 7-2-1972         | BURMAH OIL TRADING LIMITED,<br>of Burmah House, 57, Chiswell Street, London<br>EC 1, England.          | Improvements in or relating to hydraulic<br>fluids.   |
| 134628     | 16-2-1972        | WESTINGHOUSE BRAKE AND SIGNAL<br>COMPANY LIMITED,<br>of 3 John Street, London W C I N 2ES,<br>England. | Valve means.  |
| 134949     | 15-3-1972        | THE GILLETTE COMPANY,<br>at Prudential Tower Building, Boston,<br>Massachusetts, U.S.A.                | Improvements in or relating to razor.   |
| 134950     | 15-3-1972        | Do.  | Disposable razor blade unit.  |
| 134951     | 15-3-1972        | Do.  | Package for razor blade units   |
| 135015     | 21-3-1972        | CANON KABUSHIKI KAISHA,<br>of 30-3, 3-chome, Shimomaruku, Ohta-ku,<br>Tokyo, Japan.                    | Method of transferring images developed by a<br>liquid developer in electrophotographic<br>process. |
| 135084     | 28-3-1972        | AUTOMOTIVE PRODUCTS,<br>of Tachbrook Road, Leamington Spa, Warwick-<br>shire CV31 3ER, England.        | Improvements in or relating to friction<br>clutches.  |
| 135177     | 5-4-1972         | USS ENGINEERS AND CONSULTANTS<br>at 600 Grant Street, Pittsburgh, State of Pen-<br>nsylvania, U.S.A.   | Method of and apparatus for treating<br>liqued steel.   |
| 135186     | 6-4-1972         | Do.  | Method of an apparatus for replacing a hol-<br>der for a pouring tube on a bottom pour-<br>vessel.  |
| 135369     | 26-5-1972        | LUCAS INDUSTRIES PUBLIC LIMITED<br>COMPANY,<br>of Great King Street, Birmingham B19 2XF,<br>England.   | Fluid level indicating devices.   |
| 135620     | 21-11-1972       | HAROLD GEORGE POOLE,<br>of Aspden House, Aspden, Duntingford,<br>Hertfordshire, England.               | Improvements in or relating to towing con-<br>nections.   |

| 1      | 2          | 3   | 4   |
|--------|------------|---|---|
| 135631 | 9-10-1972  | Robert Bosch G. mb. H. of Postfrch 50, 7 Stuttgart, West Germany.                             | Improvements in and relating to fuel injection pump for interval combustion engine. |
| 135712 | 9-6-1972   | Palitex Project. Co. of Weeserweg, 8, 415 Krefeld West Germany.                               | Scrapping roller.   |
| 135836 | 1-7-1972   | PALITEX PROJECT-COMPANY GmbH., of Weeserweg, 8, 415 Krefeld, West Germany.                    | A spinning or twisting machine especially a double thread twisting machine.         |
| 136137 | 15-3-1972  | THE GILLETTE COMPANY, at Prudential Tower Building, Boston, Massachusetts, U.S.A.             | Disposable razor blade unit.  |
| 136138 | 15-2-1972  | Do.   | Razor blade unit.   |
| 136186 | 22-11-1972 | GIRLING LIMITED, Kings Road, Tyseley, Birmingham, 11, England.                                | Break shock adjusters.  |
| 136195 | 25-5-1972  | SANDVIK AKTIEBOLAG, Fack, S-81101, Sandviken 1,   | Eccentric drill tool.   |
| 136205 | 13-10-1972 | DR. C. OTTO & COMP. G. m. B. H. Bachum, West Germany.   | Vertical regenerator for horizontal coke ovens.                                     |
| 136241 | 28-6-1972  | BATTELLE DEVELOPMENT CORPORATION, 505 King Avenue, Columbus, Ohio, 43201, U.S.A.              | Improving flexural strength in fibre containing                                     |
| 136287 | 29-8-1972  | GERRARD BLUM, 12 Rue Pont Proviller La Tronche, Isere, France.                                | Improvements in the measurement of the area of flat flexible articles.              |
| 136531 | 26-4-1973  | ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA OF 2-1, Otc-machi, Chiyoda-ku, Tokyo-to, Japan.  | Chome Furnace.  |
| 136623 | 27-5-1972  | USS ENGINEERS AND CONSULTANTS, at 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A. | Sliding gate closure mechanism for controlling flow of molten metal.                |
| 136702 | 26-6-1972  | CANON KABUSHIKI KAISHA of 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, Japan.                  | Electrophotographic copying machines.   |
| 136959 | 8-5-1973   | DR. C. OTTO & COMP. GMBH OF Christstrasse 9, 463, Bochum, West Germany.                       | Door for horizontal cooking ovens.  |
| 136710 | 4-11-1973  | Caterpillar Tractor Co. of 100 N.E. Adams Street, Peoria, Illinois 61602, U.S.A.              | Hydraulically powered drive and steering system for track-type vehicle.             |
| 136971 | 2-11-1972  | Bettelle Development Corporation of 505, King avenue, Columbus, Ohio 43201, U.S.A.            | Concrete structural member.   |
| 137093 | 24-1-1973  | ERIK SOLBAECK OF 342, Vedback Strandvaj 2950, Vedback, Denmark.                               | A machine for producing non-woven nettings.   |
| 137263 | 5-1-1973   | CATERPILLAR TRACTOR CO. of 100 N.E. ADAMS STREET, Peoria, State of Illinois 61602, U.S.A.     | Gear drive mechanism for excavators.  |
| 137264 | 2-1-1973   | GIRLING LIMITED OF Kings Road, Tyseley, Birmingham 11, England.                               | Improvements relating to automatic adjuster for shoedrum brakes.                    |
| 137426 | 9-11-1972  | BATTELLE DEVELOPMENT CORPORATION OF 505 King Avenue, Columbus, Ohio 43201, U.S.A.             | A method of making reinforced concrete structure or body and structures so made.    |
| 137445 | 27-11-1972 | GORDON SMISER LACKY of 529 West Fourth Street, ES Condido, California, U.S.A.                 | A ball point cartridge assembly.  |

| 1      | 2          | 3  | 4   |
|--------|------------|--|---|
| 137488 | 5-1-1973   | CATERPILLAR TRACTOR COMPANY<br>of 100 N.E. Adams Street, Peoria, Illinois<br>61602, U.S.A.                         | Hydraulic circuitry for an excavator.   |
| 137489 | 5-1-1973   | Do.  | Swing transmission for excavators.  |
| 137500 | 12-10-1972 | C. REICHERT OPTISCHE WERKE,<br>of Postfach 95, Hernalser, Hauptstrasse 219,<br>Vienna, Austria.                    | Improvements in or relating to a microscope.  |
| 137511 | 12-7-1973  | FRANZ PLASSER BAHNBAUMASCHINEN<br>INDUSTRIESELSCHAFT, m.b.H.,<br>Johannessgasse 3, Vienna 1, Austria.              | A mobile arrangement for determining the<br>cross level and condition of railway track.                                       |
| 137544 | 11-4-1973  | SOCIETE NATIONALE DES POUDRES ET<br>EXPLOSIFS,<br>of 12 Auai, Henri IV, Cedex 04, 75181, France.                   | Improvements in or relating to tool holders.  |
| 137554 | 14-9-1973  | PALITEX-PROJECT-COMPANY GmbH<br>of Weeserweg B, 415 Krefeld, West Germany.   | Double twisting spindle with a twisting arm<br>swivellable in a vertical direction  |
| 137559 | 23-3-1973  | CATERPILLAR TRACTOR CO.<br>of 100 N.E. Adams street, city of Peoria, State<br>of Illinois 61602, U.S.A.            | Brake control systems.  |
| 137575 | 10-4-1973  | HOECHST AKTIENGESELLSCHAFT,<br>of 6230 Frankfurt/Main 80, Federal Republic<br>of Germany.                          | Improvements in or relating to heavy media<br>separation of minerals.   |
| 137753 | 16-10-1973 | PALITEX PROJECT-COMPANY GmbH II<br>of Weserweg 8, 415, Krefeld, West Germany.                                      | Double twisting spindle.  |
| 137786 | 7-7-1973   | R.A. LISTER AND COMPANY LIMITED<br>of Victoria Iron works, Long street, Duraley<br>Gloucesterahire, England.       | Lubricating pump.   |
| 137838 | 16-10-1973 | PALITEX PROJECT-COMPANY GmbH,<br>of Weeserweg, 8,415 Krefeld, West Germany.  | A device for stopping and locking carriage<br>for a servicing device for a twisting machine<br>spooling machine, or the like. |
| 137844 | 3-1-1973   | SULZER BROTHERS LTD.<br>of Winterthur Switzerland.   | Steam-generating apparatus.   |
| 137855 | 5-1-1973   | CATERPILLAR TRACTOR CO.<br>of 100 N.E. Adams Street, Peoria, Illinois-<br>61602, U.S.A.                            | A mounting assembly for slidably supporting<br>a track idler.   |
| 137934 | 27-9-1973  | BUREAU BBR LTD.<br>of Riesbachstrasse 57, Zurich, Switzerland.   | Apparatus for anchoring wires or stranded<br>wires.   |
| 137945 | 17-2-1973  | ERNEST POLLARD<br>of Bank House, Harden Bingley, Yorkshire,<br>England.  | Improvements in or relating to drive belting and<br>endless drive belts made therefrom.                                       |
| 137983 | 18-7-1973  | SEAMAN CORPORATION,<br>of R.D.I. Millersburg, in the State of Ohio,<br>U.S.A.                                      | Rigid frame tension fabric structure.   |
| 137998 | 10-11-1972 | SANDVIK AKTIEBOLAG FACKS-81101, Sandviken-1, Sweden  | Cutting elements for cutting tools & a method<br>of forming the same.   |
| 138088 | 28-11-1973 | FRAZ PLASSER BAHNBAUMASCHINEN<br>INDUSTRIESELSCHAFT, M.b.H.,<br>Johannessgasse 3, Vienna 1, Austria.               | A mobile silo truck, railway wagon and<br>the like.   |
| 138116 | 3-11-1973  | ISHIKAWAJIMA-HARIMA JUKOGYO<br>KABUSHIKI KAISHA,<br>of No. 2-1, 2-chome, Ote-hachi, Chiyoda-ku<br>Tokyo-to, Japan. | Rotary kiln apparatus with suspension<br>preheater having burner for calcining.   |
| 138192 | 20-2-1973  | ETARLISSEMENTSALGAD,<br>of Vaduz, Liechtenstein.   | Explosive projectiles.  |
| 138195 | 11-1-1974  | WESTINGHOUSE AIR BRAKE COMPANY<br>of Pittsburg,<br>State of Pennsylvania, U.S.A.                                   | Blending valve device for combining fluid<br>pressure and dynamic brakes.   |
| 138221 | 11-1-1974  | WESTINGHOUSE BRAKE AND SIGNAL<br>COMPANY LTD.<br>of 3 John Street, London WC1N, England.                           | Brake cylinder release valve apparatus.   |

| 1      | 2          | 3   | 4  |
|--------|------------|---|--|
| 138249 | 10-7-1973  | FERRANTI LIMITED<br>of Hollinwood, Lancashire England   | An inertial guidance system for air craft.   |
| 138269 | 9-1-1974   | FRANZ PLASSER BAHNBAUMASCHINEN<br>INDUSTRIESESELLSCHAFT, m.b.H.,<br>Johannessgasse 3, Vienna 1, Austria.  | Apparatus for tamping and levelling a<br>railway track.  |
| 138321 | 16-4-1974  | GIRLING LIMITED OF KINGS ROAD,<br>Tyseley, Birmingham 11, England.  | Fluid Pressure brake system.   |
| 138353 | 5-7-1973   | AMPLIFORM PTY. LTC.<br>of 95, Collins Street, Melbourne, State of<br>Victoria, Commonwealth of Australia.   | Method and apparatus for slotting strip material   |
| 138360 | 17-4-1974  | F.L. SMIDTH & CO., A/S.,<br>of 77 Vigerslev Alle, Copenhagen-Vally,<br>Denmark.   | Improvements in plants for burning granular<br>or pulvorus material.   |
| 138585 | 22-3-1973  | GIRLING LIMITED<br>of Kings Road, Tyseley, Birmingham 11,<br>England  | Improvements in brake adjusters.   |
| 138595 | 28-2-1973  | FRANZ PLASSER BAHNBAUMASCHINEN<br>INDUSTRIESESELLSCHAFT m.b.H.<br>of Johannessgasse 3, Vienna 1, Austria.   | Improvements relating to mobile machine for<br>distributing and profiling the bedding ballast<br>of a railway track. |
| 138681 | 19-11-1973 | GATERPILLAR TRACTOR COMPANY<br>100 N.E. Adams Street, Peoria, Illinois 61602,<br>U.S.A.   | Flat track shoe with tapered and ribs.   |
| 138777 | 3-6-1974   | KUMANDUR SRINIVASIYENGAR RANGA-<br>SAMI etc. of Rourkela, 8, Orissa State, INDIA.   | Improvements in or relating to double layered<br>braced domes.   |
| 138802 | 3-3-1973   | JACQUES HENRY MERCIER<br>of 49 rue de Naples, Paris (8 eme), France.  | Improvements in or relating to a pressure<br>vessel.   |
| 138918 | 14-5-1974  | SCHUBERT & SALZER MASCHINEN<br>FABRIK AG of 8070, Ingolstadt, Friedrich-<br>Ebert. Strasse, West Germany.   | A spinning machine.  |
| 138820 | 14-1-1974  | G.D. SOCIETA PER AZIONI OF VIA<br>Pomponia 110, Bologna Italy.  | Device for coordinating and feeding separately<br>objects particularly sweets similar to a<br>wrapping machine.      |
| 138926 | 12-3-1973  | JACQUES HENRY MERCIER,<br>of 49 rue, de Naples, Paris (8 eme), France.  | Pressure vessel.   |
| 138990 | 12-3-1974  | WARNER-LAMBERT TECHNOLOGIES INC., Illumination room system for microscopes.<br>of 6373 Stemmons Freeway, Dallas, Texas,<br>U.S.A.   |  |
| 139073 | 1-5-1974   | SHELL INTERNATIONALE RESEARCH<br>MAATSCHAPPIJ B.V.,<br>of Carel Van Bylandtalaan 30, The Hague,<br>The Netherlands.   | An atomiser and a process for the partial com-<br>bination of fuel using the atomiser.                               |
| 139081 | 10-4-1973  | WARNER-LAMBERT TECHNOLOGIES<br>INC.,<br>of 6373 Stemmons Freeway, Dallas, Texas,<br>U.S.A.  | Microscope forms adjustment mechanism.   |
| 139094 | 17-7-1974  | FIRLING LIMITED<br>of Kings Road, Tyseley, Birmingham 11,<br>England.   | Improvements in disc-brakes.   |
| 139151 | 25-9-1973  | FRA NZ PLASSER BAHNBAUMASCHINEN<br>INDUSTRIESESELLSCHAFT m.b.H.<br>Johannessgasse 3, Vienna 1, Austria.   | A device for correcting gages of railway<br>track.   |
| 139189 | 18-5-1973  | ISHIKAWAJIMA-HARIMA JUKOGYO<br>KABUSHIKI KAISHA<br>OF NO. 2-1, 2-Chome, Ote-Machi, Chiyoda,<br>Tokyo-to, Japan.   | Apparatus for burning materials of cement<br>and the like.   |
| 139210 | 6-7-1974   | Secim of 107 Boulevard De La Mission Marchand,<br>92400 Courbevoie, France, and Societe<br>de Vente De L'Aluminium Pechiney of<br>23 Bis, Rue De Balzac, 75008, Paris,<br>France. | A method and a device for manufacture of a<br>product rolled continuously from.                                      |

| 1      | 2          | 3  | 4   |
|--------|------------|--|---|
| 139363 | 29-2-1974  | RCA CORPORATION,<br>of 30, Rockefeller Plaza, New York, New<br>York 10020, U.S.A.  | Optical system.   |
| 139374 | 26-6-1974  | GIRLING LTD.,<br>of Kings Road, Tyseley, Birmingham 11,<br>England.  | A control valve assembly for a vehicle and<br>dual circuit braking system.  |
| 139488 | 17-4-1973  | Do.  | Improvements in and relating to servoboosters<br>for vehicle brake system.  |
| 139488 | 26-6-1974  | SIMON CRAVFS LTD., Cheadle Heath<br>Stockportshire,<br>England.  | A device for facilitating the discharge of<br>solid particulate material from hopper.   |
| 139516 | 4-5-1973   | WARNER-LAMBERT TECHNOLOGIES<br>INC.,<br>of 6373, Stemmons Freeway, Dallas, Texas,<br>U.S.A.  | Aperture viewing room lens system.  |
| 139539 | 10-8-1973  | OOE DENDT RASMUSSEN,<br>14, Anemonevij, Gentofte, Denmark and<br>Beghin Say of 59239 Thumeries, France.                                      | Net and method of producing same.   |
| 139544 | 20-2-1974  | NATIONAL-SOUTHWIRE ALUMINUM<br>COMPANY,<br>of P.O. Box 1000, Carrollton, Georgia 3011,<br>U.S.A.   | Method and apparatus for producing metal.   |
| 139602 | 4-6-1974   | USS ENGINEERS & CONSULTANTS INC.<br>600 Grant Street, Pittsburgh State of Pennsylvania,<br>U.S.A.  | Apparatus for introducing gas to hot metal<br>in a bottom pour vessel.  |
| 139547 | 17-9-1974  | SCHUBERT & SALZER MASCHINENFA-<br>BRIK AG.,<br>of Friedrich-Ebertstrasse 84, 8070 Ingolstadt,<br>West Germany.                               | Device for opening fibre bales.   |
| 139548 | 5-10-1974  | PALITEX PROJECT CO.<br>Weeservweg 8, 415, Krefeld, West Germany.   | Antiballooning device for twisting machines.  |
| 139646 | 27-9-1973  | WARNER-LAMBERT TECHNOLOGIES INC., Dual turret attachment for a microscope<br>of 6373 Stemmons Freeway, Dallas, Texas,<br>U.S.A.              | and the like.   |
| 139654 | 19-12-1974 | MIDREX CORPORATION,<br>of One NNB Plaza, Charlotte, North Carolina<br>28280 U.S.A.   | Apparatus for cooling a moving bed of solid,<br>gas permeable particles.  |
| 139681 | 11-4-1973  | SOCIETE NATIONALE DES POUDERES ET<br>ET EXPLOSIFS,<br>12, quai Henri IV, Cedex 04, 75181 Paris<br>France.                                    | Milling machine for the machining of parts of a<br>large dimensions in particularly of the blocks<br>of solid propellants.                      |
| 139682 | 11-4-1973  | Do.  | Process and device for machining of the internal<br>duct of a block of solid propellant.  |
| 139685 | 29-6-1973  | POLAR CHEMICALS LIMITED,<br>of Leo House, London Wall, London, E.C.2,<br>England.  | A method for the removal of deposits from<br>surfaces.  |
| 139799 | 19-7-1973  | Establishment Salgad, Vduz Liechtenstein.  | Light mortar for fin stabilised projectiles.  |
| 139805 | 4-3-1974   | OUTOKUMPU OY,<br>Outokumpu, Finland.   | An intra-uterine contraceptive device.  |
| 139812 | 5-12-1973  | FIRLING LTD.,<br>Kings Road, Tyseley, Birmingham 11, England   | Improvements in transmission members and<br>hydraulic actuators incorporating said<br>transmissions member.                                     |
| 139916 | 20-10-1973 | IMS. LTD.,<br>of 1886, Santa Anita Avenue, South El<br>Monte, California, 91733, U.S.A.  | A fluid transfer device.  |
| 139860 | 4-4-1973   | WESTINGHOUSE ELECTRIC CORPORATION, Improvement system for turbine speed con-<br>trolling valve operation.<br>Pittsburgh Pennsylvania, U.S.A. |   |
| 139945 | 24-8-1973  | CRAWFORD BROWN MURTON,<br>of Pittsburgh, Pennsylvania, 15221, U.S.A.   | A method of applying a factory lining to<br>a metallurgical vessel and metallurgical<br>vessel so produced and composition used<br>in the same. |
| 139955 | 18-10-1973 | BICC (BRITISH INSULATED CALENDERS<br>CABLES LTD.,<br>Bloomsbury street, London WC, 3 QH,<br>England.   | Wire drawing machinery.   |

CHEMICAL ENGG  
LIST—III

## COMMERCIAL WORKING PATENTED INVENTIONS

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calendar year 1984-85 generally on account of want of request for Licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a Licence for the purpose :—

| Patent No. | Date of Patent | Name & Address of the Patentee  | Title of the Invention  |
|------------|----------------|---|---|
| 1          | 2              | 3   | 4   |
| 139301     | 26-3-1973      | COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH<br>Rafi Marg, New Delhi-1, India. | A process for production of sponge iron.  |
| 139383     | 26-9-1974      | Do.   | Improvements in or relating to Calcium tung-  |
| 140310     | 13-9-1973      | Do.   | Process for making sodium hydrosulphide, state like phospher of different shades.   |
| 140627     | 15-12-1975     | Do.   | Improvements in or relating to removal of phosphorus and iron from fluorspar.   |
| 142032     | 11-2-1974      | Do.   | A process and apparatus for production of hot reducing gases for the reduction of oxide ores such as iron ore into sponge iron. |
| 143334     | 19-11-1975     | Do.   | Process for the extraction of nickel and cobalt values from alaterrific and limonetic nickel-ferrous ores.                      |
| 143829     | 24-2-1976      | Do.   | Improvements in or relating to electro-thermal smelting of lead from lead sulphide concentrates.                                |
| 144197     | 21-12-1976     | Do.   | A process for treating industrial sludge containing chromium from bichromate sludge.  |
| 146264     | 22-9-1977      | Do.   | Method and apparatus relating to the production of cellular metal.  |
| 146912     | 12-8-1977      | Do.   | Improved process for the manufacture of carbon fibres from poly acrylonitrile fibres.   |
| 147616     | 19-10-1977     | Do.   | Improved process for the manufacture of moulded carbon articles.  |
| 148140     | 22-8-1978      | Do.   | A process for the production of austenitic stainless steel free of nitrogen.  |
| 148202     | 19-7-1978      | Do.   | An improved process for the desulphurisation of ferrous melts in the iron and steel industry.                                   |
| 148567     | 19-7-1978      | Do.   | Production of oil well cement additives.  |
| 150416     | 31-12-1979     | Do.   | Preparation of water displacing rust preventive oil for protection of metal from corrosion.                                     |
| 150466     | 19-12-1978     | Do.   | A process for the microbial recovery of copper from copper ores.  |
| 151036     | 25-1-1981      | Do.   | A process for the preparation of ammonia vanadate from vanadium bearing sludge of alumina plant by liquid ion exchange method.  |
| 151200     | 13-7-1978      | Do.   | Process for the preparation of 2-hydroxy trypta-mine mono-hydrochloride.  |
| 151201     | 13-7-1978      | Do.   | Process for the preparation of dimethyl-4-ethyl-4-formyl pimelate.  |
| 151657     | 5-8-1980       | Do.   | Improved process for the production of dinitroso Penta-methylene tetramine.   |
| 152242     | 5-6-1979       | Do.   | An improved process for purification of low grade molybdenite.  |

## RENEWAL FEES PAID

|        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|---------|
| 138676 | 139238 | 139389 | 139941 | 140449 | 140671 | 141086  |
| 141387 | 141980 | 142097 | 142145 | 142225 | 142472 | 142636  |
| 143011 | 143315 | 143523 | 143665 | 143673 | 143802 | 143834  |
| 143835 | 143905 | 144027 | 144046 | 144620 | 144724 | 144818  |
| 144857 | 144866 | 144870 | 145245 | 145307 | 145621 | 145689  |
| 146229 | 146432 | 146444 | 147178 | 147318 | 147540 | 147555  |
| 147710 | 148213 | 148219 | 148240 | 148488 | 148514 | 149554  |
| 149565 | 149588 | 149817 | 149888 | 150089 | 150144 | 150381  |
| 150508 | 150561 | 150952 | 150959 | 150990 | 151048 | 151051  |
| 151052 | 151204 | 151408 | 151669 | 151688 | 151835 | 151889  |
| 151946 | 152026 | 152037 | 152089 | 152094 | 152195 | 152220  |
| 152293 | 152346 | 152347 | 152356 | 152368 | 152407 | 152624  |
| 152626 | 152732 | 152757 | 152899 | 152910 | 152942 | 152949  |
| 153034 | 153148 | 153218 | 153265 | 153349 | 153499 | 153617  |
| 153620 | 153650 | 153651 | 153916 | 153962 | 154019 | 154095  |
| 154208 | 154492 | 154545 | 154601 | 154659 | 154684 | 154741  |
| 154821 | 154995 | 155229 | 155407 | 155429 | 155582 | 155872  |
| 155908 | 156006 | 156017 | 156109 | 156123 | 156237 | 156438  |
| 156482 | 156483 | 156487 | 156491 | 156492 | 156493 | 156495  |
| 156498 | 156499 | 156500 | 156501 | 156507 | 156508 | 156511  |
| 156512 | 156515 | 156517 | 156518 | 156522 | 156525 | 156528  |
| 156530 | 156533 | 156553 | 156559 | 156596 | 156597 | 156599  |
| 156600 | 156601 | 156603 | 156611 | 156636 | 156654 | 156802  |
| 157048 | 157049 | 157050 | 157053 | 157126 | 157311 | 157312  |
| 157315 | 157320 | 157322 | 157330 | 157338 | 157339 | 157349  |
| 157359 | 157361 | 157365 | 157366 | 157381 | 157387 | 157384. |

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157777. Saurashtra Manufacturing Corporation, C-79, Mayapuri, New Delhi-110 064, India, an Indian Partnership concern. "Scrapper Strips for Ice Cream Machine". 15th December, 1986.

Class 3. No. 157740. A Australian Telecommunications Commission, a body corporate established under the Telecommunications Act 1975, of 199 William Street, Melbourne, in the State of Victoria, Commonwealth of Australia. "A Telephone". 2nd December, 1986.

Class 3. No. 157742. Plastella (a registered Partnership firm) of 91-Swami Vivekanand Road, Borivali (West) Bombay-400 092, State of Maharashtra, India. "COMB". 3rd December, 1986.

Class 3. No. 157800. Milton Plastics, a registered Indian Partnership Firm, registered under the Indian Partnership Act, 1932, having Office at 202/203, 'Raheja Centre', 214, Nariman Point, Bombay-400 021, Maharashtra, India. "Planter". 24th December, 1986.

Class 3. No. 157813. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India, an Indian Partnership Firm. "Jewellery Box". 24th December, 1986.

Class 3. No. 157815. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India, an Indian Partnership Firm. "Key Tag". 24th December, 1986.

Class 3. No. 157830. Wimco Pen Company, 11, Mehta Industrial Estate, 1st floor, I. B. Patel Road, Goregaon (East), Bombay-400 063, Maharashtra, India, an Indian Partnership Firm. "Tiffin Carrier". 31st December, 1986.

Class 3. No. 157831. Cosmic Marketing Service India Private Limited, 5, Anjali Apartments, Ramkrishna Mission Marg, 14B, Road, Khar, Bombay-400 052, Maharashtra, India, a private limited company incorporated under the Indian Companies Act. "Road Mark". 31st December, 1986.

Class 5. No. 157741. GTC Industries Limited, (a Company incorporated under the provisions of Indian Companies Act) at Tobacco House, Vile Parle, Bombay-400 056, Maharashtra State, India. "Cigarette Packet". 3rd December, 1986.

Extn. of Copyright for the Second period of five years.

Nos. 151093 151099 151100 151101 151102 Class-1.

No. 151137 Class-3.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks.

